



Electrical high-speed multiple unit (MU) EC250 for the Swiss Federal Railways (SBB), Switzerland

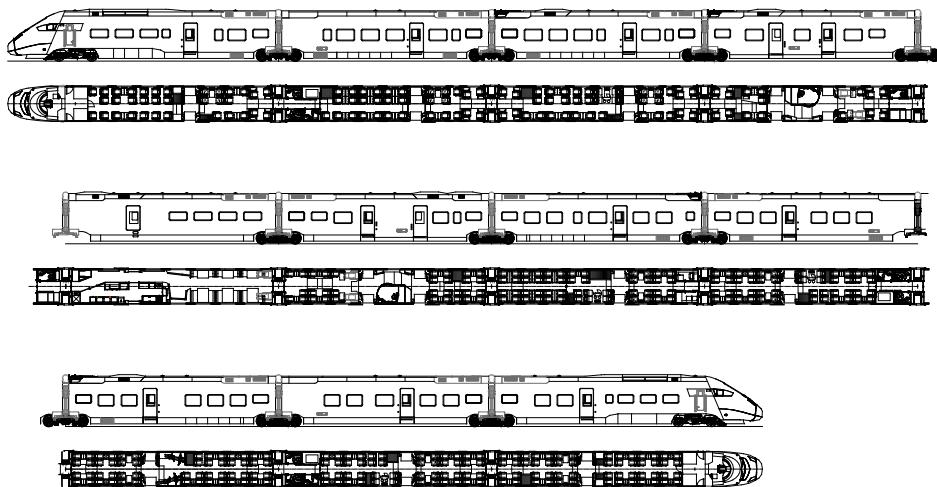
SBB has ordered twenty-nine 11-car EC250 multi-system electrical MUs from Stadler, with nineteen as the IC variant with dining cars and ten as the IR variant without dining cars.

The trains will operate on the transalpine service between Zurich and Milan, and later between Frankfurt and Milan. The generously designed and comfortable interior will make connections between European cities a pleasurable experience for the passengers.

The trains ordered are a further development of the proven FLIRT concept, for the high-speed sector, with particular focus on a customer-friendly solution for families, senior citizens and the disabled. They feature advanced thermal and acoustic insulation and meet the high requirements of the New Rail Link through the Alps (NRLA) tunnel.

Stadler Bussnang AG
Ernst-Stadler-Strasse 4
CH-9565 Bussnang, Switzerland
Phone +41 (0)71 626 20 20
Fax +41 (0)71 626 20 21
stadler.bussnang@stadlerrail.com

A Company of Stadler Rail Group
Ernst-Stadler-Strasse 1
CH-9565 Bussnang, Switzerland
Phone +41 (0)71 626 21 20
Fax +41 (0)71 626 21 28
stadler.rail@stadlerrail.com



Technical features

- Low-floor boarding at all doors
- Transparent, open interior design
- Pressure-tight, air-conditioned passenger compartments and drivers' cab
- Vacuum toilet system with disabled access in the low-floor area
- Unaided boarding for wheelchair users at a platform height of P55 and P76
- Generously dimensioned stepless entrance areas
- Multifunctional and bicycle areas in the passenger compartment
- Air-cushioned motor and trailer bogies
- Ergonomically designed driver's cab
- Redundant drive system consisting of 4 power trains
- Vehicle control system with train bus and diagnostics computer
- Crashworthiness in accordance with the latest EN standard
- Comfortable interior for long distance operation
- Automatic centre buffer coupling
- Operation in double traction

Vehicle data

Customer	Swiss Federal Railways (SBB)
Operation	Euro-City connections CH/DE/AT/IT
Track gauge	1 435 mm
Supply voltage	15 kV 16.7 Hz / 25 kV 50 Hz / 3 kVDC
Axle arrangement	2' Bo' Bo' 2' 2' 2' 2' Bo' Bo' 2' 2' 2'
Number of vehicles	29
Commissioning	from 2017
Seating capacity	403 (1st class 117 / 2nd class 286)
Wheelchair spaces	4 (1st class 2 / 2nd class 2)
Dining car seats	17
Floor height	
Low-floor	940 mm
High-floor	1 200 mm
Entry width	900 mm
Axial thrust	1 500 kN
Overall length	202 000 mm
Vehicle width	2 900 mm
Vehicle height	4 255 mm
Service weight, unladen weight	388.3 t
Axle base	
Motor bogie	2 750 mm
Trailer bogie	2 700 mm
Diameter of driving wheel, new	920 mm
Carrying wheel diameter, new	920 mm
Maximum output at wheel	6 000 kW
Starting tractive effort	300 kN
Maximum speed	250 km/h

